


## Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IOWA, Southwest</b>				
<b>PAGE COUNTY --- 7.0 SE SHAMBAUGH [40.58, -94.94]</b>				
	04/03/11 19:40 CST		0	Hail (1.00 in)
	04/03/11 19:45 CST		0	Source: Trained Spotter
Hail up to 1 inch in diameter fell for about 5 minutes southeast of Shambaugh.				
Isolated severe thunderstorms developed along and just behind a cold front that raced across southeast Nebraska and southwest Iowa during the evening of April 3rd.				
<b>MONONA COUNTY --- 0.9 NW WHITING [42.14, -96.16], 4.0 NE WHITING [42.17, -96.09]</b>				
	04/09/11 17:32 CST		0	Hail (1.50 in)
	04/09/11 17:43 CST		0	Source: Trained Spotter
Hail up to 1.5 inches in diameter fell for several minutes in the Whiting area. The hail was from the same supercell thunderstorm that produced a EF3 tornado a brief time later in the Mapleton area.				
<b>MONONA COUNTY --- 2.1 SSE MAPLETON [42.14, -95.79]</b>				
	04/09/11 18:17 CST		0	Hail (1.75 in)
	04/09/11 18:17 CST		0	Source: Trained Spotter
Golfball-size hail was reported with the same supercell thunderstorm that produced a EF-3 tornado in Mapleton.				
<b>MONONA COUNTY --- 1.8 SW MAPLETON [42.15, -95.83], 1.2 ENE MAPLETON MUNI ARPT [42.18, -95.78]</b>				
	04/09/11 18:20 CST		0	Tornado (EF3, L: 3.38 mi , W: 1200 yd)
	04/09/11 18:26 CST	14	0	Source: Emergency Manager
A tornado caused extensive damage in the Mapleton area with about 100 houses destroyed and many others severely damaged in a 12 to 15 block area on the southwest side of town. This caused the displacement of around 500 to 600 people. Most garages and stand alone structures were destroyed. In addition, large trees were uprooted and windows blown out of vehicles. Twelve to 14 people sustained minor injuries, the most severe a broken leg. The worst property damage was noted to be on the lower end of the EF3 category. The tornado started about 2 miles west southwest of Mapleton, moved into town, then turned north and ended 1 mile north of town. The path length was around 3.5 miles and the maximum width was around 3/4 of a mile.				
<b>MONONA COUNTY --- 0.5 E ONAWA [42.03, -96.09]</b>				
	04/09/11 23:19 CST		0	Hail (1.00 in)
	04/09/11 23:19 CST		0	Source: Law Enforcement
<b>MONONA COUNTY --- 3.9 NE WHITING [42.17, -96.10]</b>				
	04/10/11 17:50 CST		0	Hail (1.75 in)
	04/10/11 17:50 CST		0	Source: Law Enforcement
A probable gustnado was also reported with the hail.				
A large upper level trough of low pressure moved from the Rockies east toward the central U.S. on Saturday April 9th. As it did, it caused a warm front to lift into eastern Nebraska and western Iowa. Temperatures south of the front were in the 80s with dew point temperatures in the 60s. Meanwhile, readings north of the boundary were in the 50s and 60s. Moderate instability south of the front combined with high levels of wind shear allowed for supercell development over eastern Nebraska and southwest Iowa during the late afternoon and early evening of April 9th. A few of the storms that were near the front turned tornadic while the other supercells were prolific hail producers, in some cases producing very large hail.				

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Tornado damage in Mapleton, photo taken by the NWS storm assessment team.

FREMONT COUNTY --- 2.2 WNW BARTLETT [40.89, -95.82], 4.5 NW MC PAUL [40.86, -95.86], 3.5 WSW MC PAUL [40.80, -95.86], 5.7 WSW PERCIVAL [40.72, -95.90], 5.2 SSW PAYNE [40.60, -95.79], 3.9 W HAMBURG REIDS ARPT [40.59, -95.72]			
04/19/11 18:00 CST	5K	Flood (due to Heavy Rain / Snow Melt)	
04/30/11 23:59 CST	0	Source: Emergency Manager	

Several periods of moderate to heavy rain combined with upstream inflows due to snow melt and rain caused the Missouri River to flood from around Nebraska City downstream through Rulo. The flooding began a little after the middle of the month and persisted into May. In Fremont county the flooding mainly affected marshy lowlands and low-lying farm fields along the river although a few recreational areas were flooded as well. The river at Nebraska City climbed above its 18 foot flood stage in the evening of 4/19 and continued above flood stage into May. The river had a prolonged crest of around and just under 19.5 feet over the last week or so of April. The flooding and this crest carried into May.

Several moderate to heavy rain events in southwest Iowa and eastern Nebraska combined with increased upstream flows due to snow melt and rainfall caused the Missouri River to flood around and downstream of Nebraska City beginning a little after the middle of April and persisted into May.

NEBRASKA, East

RICHARDSON COUNTY --- 3.1 E (FNB)BRENER FLD FALL [40.08, -95.52], 2.4 W RULO [40.05, -95.48]			
04/03/11 18:50 CST	0	Hail (1.25 in)	
04/03/11 18:50 CST	0	Source: Trained Spotter	

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Hail between quarter and golf ball-size fell in a narrow swath between Falls City and Rulo. The time was estimated based on radar.

Isolated severe thunderstorms developed along and just behind a cold front that raced across southeast Nebraska and southwest Iowa during the evening of April 3rd.

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### BOONE COUNTY --- 8.5 ENE ALBION [41.75, -97.85]

04/09/11 17:36 CST	0	Hail (1.75 in)
04/09/11 17:36 CST	0	Source: Trained Spotter

Hail up to golf ball-size was reported about 4 miles west of Newman Grove.

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### MADISON COUNTY --- 2.1 W NEWMAN GROVE [41.75, -97.82]

04/09/11 17:38 CST	0	Hail (1.00 in)
04/09/11 17:38 CST	0	Source: Public

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### MADISON COUNTY --- 4.3 NW NORFOLK SIMPSON ARPT [42.03, -97.52]

04/09/11 18:10 CST	0	Hail (1.00 in)
04/09/11 18:10 CST	0	Source: Emergency Manager

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### BUTLER COUNTY --- 3.5 NW DAVID CITY [41.29, -97.17]

04/09/11 18:12 CST	0	Hail (0.75 in)
04/09/11 18:12 CST	0	Source: Emergency Manager

Hail up to dime-size was reported northwest of David City.

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### MADISON COUNTY --- 5.0 SW (OFK)STEFAN FLD NORF [41.93, -97.50]

04/09/11 18:13 CST	0	Hail (1.75 in)
04/09/11 18:13 CST	0	Source: Law Enforcement

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### MADISON COUNTY --- NORFOLK [42.03, -97.42]

04/09/11 18:16 CST	0	Hail (3.00 in)
04/09/11 18:23 CST	0	Source: Trained Spotter

The second supercell thunderstorm that moved across Madison county during the evening produced hail up to baseball-size in the Norfolk area. The hail caused considerable vehicle damage in town along with roof and siding damage.

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### WAYNE COUNTY --- 2.8 S CARROLL [42.24, -97.17]

04/09/11 18:16 CST	0	Hail (1.00 in)
04/09/11 18:16 CST	0	Source: Trained Spotter

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### WAYNE COUNTY --- 3.8 SSW SHOLES [42.28, -97.31]

04/09/11 18:21 CST	0	Hail (1.00 in)
04/09/11 18:21 CST	0	Source: Trained Spotter

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### CEDAR COUNTY --- 0.5 E HARTINGTON [42.62, -97.26], 2.0 N HARTINGTON [42.65, -97.27]

04/09/11 18:22 CST	0	Hail (1.75 in)
04/09/11 18:28 CST	0	Source: Law Enforcement

Hail up to golfball-size fell from the left mover of a supercell that split southwest of the county. The hail was reported in and north of the Hartington area.

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### BUTLER COUNTY --- 4.7 E BELLWOOD [41.34, -97.16]

04/09/11 18:27 CST	0	Hail (1.00 in)
04/09/11 18:27 CST	0	Source: Trained Spotter

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### COLFAX COUNTY --- 6.9 S CLARKSON [41.62, -97.12]

04/09/11 18:33 CST	0	Hail (1.75 in)
04/09/11 18:33 CST	0	Source: Law Enforcement

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### BUTLER COUNTY --- 2.1 W EDHOLM [41.40, -97.06]

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	04/09/11 18:35 CST		0	Hail (0.88 in)
	04/09/11 18:35 CST		0	Source: Trained Spotter

South of Schuyler in far northern Butler county.

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### WAYNE COUNTY --- 1.0 E WINSIDE [42.18, -97.15]

04/09/11 18:38 CST	0	Hail (1.00 in)
04/09/11 18:38 CST	0	Source: Trained Spotter

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### WAYNE COUNTY --- 4.8 S WAKEFIELD [42.20, -96.87]

04/09/11 19:03 CST	0	Hail (1.25 in)
04/09/11 19:03 CST	0	Source: Public

A large upper level trough of low pressure moved from the Rockies east toward the central U.S. on Saturday April 9th. As it did, it caused a warm front to lift into eastern Nebraska and western Iowa. Temperatures south of the front were in the 80s with dew point temperatures in the 60s. Meanwhile, readings north of the boundary were in the 50s and 60s. Moderate instability south of the front combined with high levels of wind shear allowed for supercell development over eastern Nebraska and southwest Iowa during the late afternoon and early evening of April 9th. A few of the storms that were near the front turned tornadic while the other supercells were prolific hail producers, in some cases producing very large hail.

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### (NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE

04/15/11 07:00 CST	0	Winter Storm
04/15/11 21:00 CST	0	

Intense low pressure tracked from central Kansas into southern Missouri before weakening as it lifted northeast. This system brought areas of heavy snow to northeast Nebraska with the heaviest from around Neligh northeast into Cedar and Knox counties. In addition, several inches of accumulating snow fell from Wayne and Norfolk south to northern Butler county and some snow was also reported as far south as Lincoln and Fairbury. In addition, the system brought widespread precipitation amounts of 0.75 to 1.75 inches to eastern Nebraska. Strong easterly winds in advance of the system were replaced by north or northwest winds of 30 to 45 mph. This added to travel woes in northeast Nebraska as snow rates were heavy enough to drop visibilities at times to less than 1/2 mile and cause accumulations on roads despite relatively mild ground temperatures and surface temperatures of 32 to 34 degrees during the snowfall. Heavier totals included around 8 inches in Bloomfield and Coleridge, 7.5 inches in Neligh and around 6 inches in Oakdale and Hartington.

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### NEMAHA COUNTY --- 2.6 N PERU [40.52, -95.73], 1.8 NW BROWNVILLE [40.42, -95.67], 1.8 ENE NEMAHA [40.34, -95.64], 1.6 S NEMAHA [40.31, -95.67], 6.4 SE NEMAHA [40.27, -95.58], 7.5 ESE NEMAHA [40.29, -95.54]

04/17/11 14:00 CST	5K	Flood (due to Heavy Rain / Snow Melt)
04/30/11 23:59 CST	0	Source: Emergency Manager

Several periods of moderate to heavy rain combined with upstream inflows due to snow melt and rain caused the Missouri River to flood from around Nebraska City downstream through Rulo. The flooding began a little after the middle of the month and persisted into May. In Nemaha county the flooding mainly affected marshy lowlands and low-lying farm fields along the river although a few recreational areas were flooded as well. The river at Brownville climbed above its 33 foot flood stage in the afternoon of 4/17 and continued above flood stage into May. The river had a prolonged crest around and a little above 35 feet during the last week or so of April. The flooding and crest carried over into May.

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### OTOE COUNTY --- 8.5 N NEBRASKA CITY ARPT [40.79, -95.88], 2.5 NNW NEBRASKA CITY ARPT [40.70, -95.88], 3.0 SE NEBRASKA CITY [40.62, -95.81], 6.0 SE PAUL [40.52, -95.79], 8.7 ESE PAUL [40.54, -95.72]

04/19/11 18:00 CST	5K	Flood (due to Heavy Rain / Snow Melt)
04/30/11 23:59 CST	0	Source: Emergency Manager

Several periods of moderate to heavy rain combined with upstream inflows due to snow melt and rain caused the Missouri River to flood from around Nebraska City downstream through Rulo. The flooding began a little after the middle of the month and persisted into May. In Otoe county the flooding mainly affected marshy lowlands and low-lying farm fields along the river although a few recreational areas were flooded as well. The river at Nebraska City climbed above its 18 foot flood stage in the evening of 4/19 and continued above flood stage into May. The river had a prolonged crest of around and just under 19.5 feet over the last week or so of April. The crest and flooding carried over into May.

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### RICHARDSON COUNTY --- 3.1 N BARADA [40.27, -95.58], 7.3 NNW RULO [40.15, -95.46], 1.4 SW RULO [40.04, -95.45], 6.2 ESE RULO [40.00, -95.33], 7.4 ESE RULO [40.02, -95.30], 7.4 N RULO [40.16, -95.43], 4.9 ENE BARADA [40.24, -95.49]

04/19/11 18:00 CST	5K	Flood (due to Heavy Rain / Snow Melt)
04/30/11 23:59 CST	0	Source: Emergency Manager

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Several periods of moderate to heavy rain combined with upstream inflows due to snow melt and rain caused the Missouri River to flood from around Nebraska City downstream through Rulo. The flooding began a little after the middle of the month and persisted into May. In Richardson county the flooding mainly affected marshy lowlands and low-lying farm fields along the river although a few recreational areas were flooded as well. The river at Rulo climbed above its 17 foot flood stage during the evening of 4/19 and continued above flood stage into May. The river had a prolonged crest of around and just over 18 feet over the last week or so of April. The flooding and crest carried over into May.				
<b>CASS COUNTY --- 2.2 N PLATTSMOUTH [41.05, -95.89], 3.6 SE UNION [40.78, -95.85], 5.4 E UNION [40.81, -95.80], 5.4 E MURRAY [40.93, -95.82], 3.6 NE PLATTSMOUTH [41.05, -95.85]</b>				
	04/21/11 23:00 CST		5K	Flood (due to Heavy Rain / Snow Melt)
	04/30/11 23:59 CST		0	Source: Official NWS Observations

Several episodes of heavy rain combined with snow melt and rain upstream and caused a prolonged high flow of the Missouri River. The river at Plattsmouth started climbing significantly on 4/19 and went a little over it's 26 foot flood stage late in the evening on 4/22 and remained close to or above flood stage through May. Although the high water mainly flooded marshy areas and farmland along the river, it also flooded a few roads and recreational areas by the river.

**Several periods of moderate to heavy rain in eastern Nebraska and southwest Iowa combined with snow melt runoff in the upper Missouri basin brought increased flows along the Missouri River downstream of Omaha. The river around and downstream of Nebraska City climbed above flood stage around the middle of the month and the lowland flooding continued into May.**

<b>SALINE COUNTY --- 0.5 W CRETE [40.63, -96.96]</b>				
	04/19/11 03:04 CST		0	Hail (0.75 in)
	04/19/11 03:04 CST		0	Source: Trained Spotter

<b>SEWARD COUNTY --- MILFORD [40.77, -97.05]</b>				
	04/19/11 03:35 CST		0	Hail (0.88 in)
	04/19/11 03:35 CST		0	Source: Trained Spotter

<b>LANCASTER COUNTY --- 1.7 ESE WEST LINCOLN [40.82, -96.69]</b>				
	04/19/11 03:39 CST		0	Hail (1.00 in)
	04/19/11 03:39 CST		0	Source: Trained Spotter

Hail up to quarter-size almost covered the ground completely across mainly northern Lincoln. This report was near 27th and Superior Streets.

**Warmer and more unstable air fed north of a warm front in Kansas into southeast Nebraska during the early morning hours of April 19th. This brought an area of Thunderstorms to the region during the predawn hours, a few of which produced hail up to quarter-size.**

<b>BOONE COUNTY --- 4.4 SW ALBION [41.65, -98.06], 0.7 S ALBION [41.69, -98.00]</b>				
	04/29/11 19:25 CST		10K	Thunderstorm Wind (EG 52 kt)
	04/29/11 19:29 CST		0	Source: Emergency Manager

Thunderstorm wind gusts estimated at 60 mph blew a large secured grain bin a few hundred yards off its foundation and damaged a few others around 3 miles southwest of Albion. The winds also caused tree damage around that area northeast into Albion. A trampoline in the area was also wrapped around a propane tank and swing set flipped.

**An intense upper level low pressure system that closed off over the Dakotas on April 29 and April 30 sent a cold front across eastern Nebraska during the evening of April 29. Scattered thunderstorms developed along and behind the front, at least one of which produced wind damage.**